

If specific preferred positions are to be defined in an isolated space – e.g. in tubes through which gas or liquid flows, or in vacuum – this can be accomplished using magnetic catches (FIG. 9. 12).

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The partition wall must be made of non-ferromagnetic material. As a result of the magnetic field, however, this non-contact catch immobilizes only in elastic fashion, and has a tendency to oscillate.

10 FIG. 9. 12 Magnetic catch

1 Magnets 2 Pole shoes 3 Partition wall.

Konstruktionselemente der  
Feinmechanik

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## Flow measurement and control

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An exhaust gas recirculation systems directs exhaust gasses from an exhaust manifold to an intake manifold of an internal combustion engine. The exhaust gasses travel from the exhaust manifold, first passing through a valve and then through a measuring orifice before entering the intake manifold. Pressure difference across the orifice is used, along with correction factors based on the pressure difference and pressure downstream of the orifice, to measure and control exhaust gas flow.

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